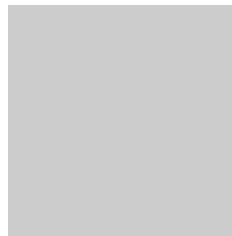


**CLOCK
RADIO**

**Sonoclock 54
SC 5304 DCF**



GERMIG

Safety

This device is designed for the playback of audio signals. Any other use is expressly prohibited.

If the device is subjected to sudden changes in temperature, for example if it is brought in from the cold to a warm room, let it stand for at least two hours. Do not connect to the mains supply during this time.

Protect the device from moisture (water drops or splashes). Do not place any vessels such as vases on the device. These may be knocked over and spill fluid on the electrical components, thus presenting a safety risk.

When deciding where to place the device, please note that furniture surfaces are covered by various types of varnish and plastic, most of which contain chemical additives. These additives can corrode the device supports, leaving residues on the furniture surfaces which can be difficult or impossible to remove.

Do not use any cleaning agent, as this may damage the casing. Clean the device with a clean, damp leather cloth. Never open the device casing. No warranty claims are accepted for damage resulting from improper handling.

The type plate is located on the bottom of the device.

Information

This device is noise-suppressed according to the applicable EU directives. This product fulfils the European directives 89/336/EEC, 73/23/EEC and 93/68/EEC.

This device conforms to the safety regulation DIN EN 60065(VDE 0860) and therefore the international safety regulation IEC 60065.

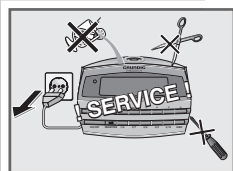
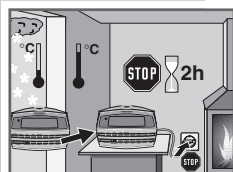
Technical data

Current supply	230 Volt, 50/60
Max. power consumption:	<4.5 W (operation), <3 W (stand-by, projector off), <4 W (stand-by, projector on)
Output:	DIN 45324, 10% THD 400 mW
Frequency bands:	FM 87.5 ...108.0 MHz
Dimensions and weight:	W x H x L 125 x 220 x 95 mm Weight approx. 800 g

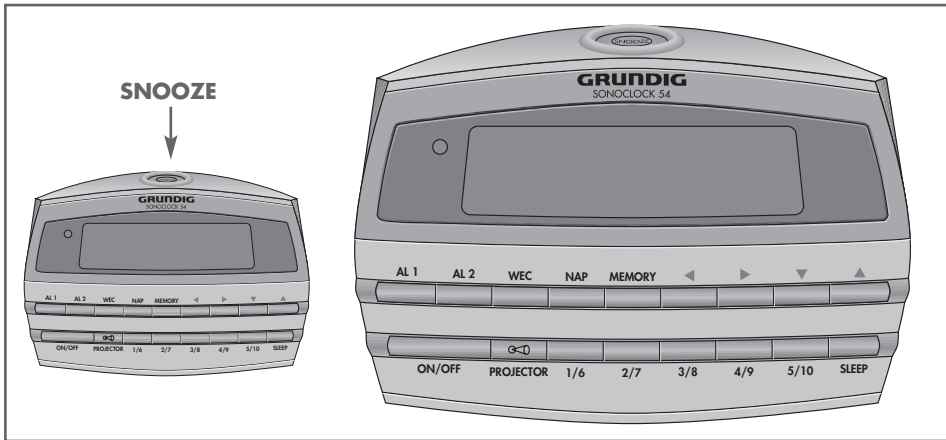
Environmental note

As little material as possible was used in the packaging of your device. It consists of two separate materials: cardboard (box) and polyethylene (bag). Please observe the local regulations for disposing of the packing material.

Technical and design modifications reserved.



OVERVIEW



Controls on the top

SNOOZE

Interrupts the alarm function for approximately 9 minutes. The circular LED flashes when »**SNOOZE**« or »**NAP**« are pressed.

Controls on the front



Sensor (Auto Dimmer). Adjusts the brightness of the display to the brightness of the room.

AL 1

AL 2

Settings for alarm time 1 and alarm time 2. Press once: Displays the current alarm programme for 3 seconds. Press again within 3 seconds: Activates the settings of the alarm programme. Press for more than two seconds and hold down: Activates or deactivates the alarm function.

WEC

Deactivates and activates the alarm function for the weekend.

NAP

Press once: Activates the setting for the reminder timer. Press and hold down: Deactivates the reminder timer.

MEMORY

When the device is on: For storing a radio station on a preset button.

In stand-by mode: Activates the time zone setting; activates and saves the manual time setting.



To select the settings for time, date, alarm type, alarm time and alarm date.

OVERVIEW



For setting the radio stations manually. For changing the selected settings such as time, date, alarm type, alarm time and alarm days.

ON/OFF

Switches the device off (stand-by) and back on. Interrupts the alarm stand-by (alarm time 1 and 2) for 24 hours.
For switching off the sleep timer before the set time.

PROJECTOR

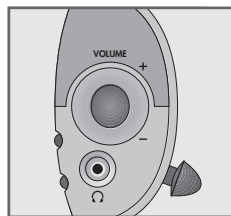
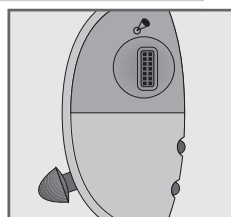
Switches the projector on and off.
For manual setting of the display brightness.

1/6 ... 5/10

Station buttons. Press once for channel position 1 ... 5, and twice for channel position 6 ... 10.

SLEEP

Stand-by: Switches the radio on.
When the device is switched on: Press once to activate the sleep timer, press and hold down (3 seconds) to deactivate the sleep timer.



Controls on the sides



Connection socket for the cable of the supplied projector.

+ VOLUME -

Adjusts the volume on the right side of the device.



Earphone socket (3.5 mm plug), on the right side of the device.
- The device's loudspeaker is switched off.

Controls on the back



Mains cable.



Wire antenna for FM reception.

For the best reception, direct the antenna accordingly.



DCF 77-Antenna.

Controls on the bottom

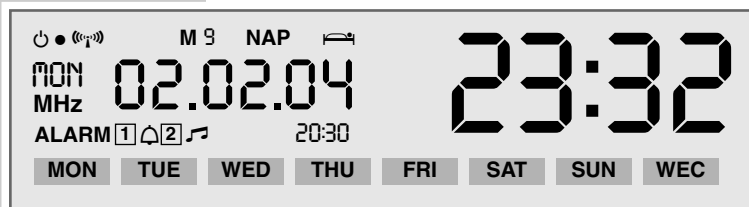
RESET











Returns the device to its original setting.

Two bases that can be adjusted in three different ways.

OVERVIEW

The displays



	Lights up when the device is in stand-by mode.
	Operation indicator. Lights up when the device is switched on.
	Displays the DCF time synchronisation.
M 9	Displays the station position of the station you are currently playing.
NAP	The reminder timer is activated.
	The sleep timer is activated.
MON	Day, frequency band or function display.
02.02.04	Date or frequency display.
MHz	In combination with the frequency display.
23:32	Displays the current time.
ALARM  	Indicates the alarm settings for alarm times 1 or 2 (the next alarm time always appears in a frame, e.g. »  « the following alarm time appears without a frame, e.g. »  «).
	Displays alarm stand-by with signal tone.
	Displays alarm stand-by with radio station.
20:30	Displays the alarm times or the times for the sleep or reminder timer.
MON	Displays the alarm days.
WEC	The alarm has been deactivated for the weekend.

PREPARATIONS

Connect power cable

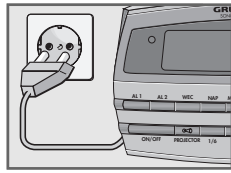
Note:

Check that the mains voltage on the type plate (on the bottom of the device) corresponds to your local mains supply. If this is not the case, contact your specialist dealer.


- 1 Plug the mains cable into the socket (230 V~, 50/60 Hz).

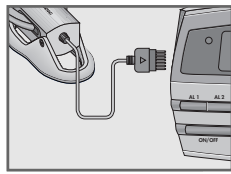
Note:

The only way to disconnect the device from the mains supply is to pull out the plug.



Connect projector

- 1 Plug the jack of the projector cable into the socket »  « (left side of the device) with the arrow pointing forwards.



PREPARATIONS

Additional information for units sold in the UK.

Units sold in the UK are suitable for operation from a 240V ac, 50Hz mains supply.

The range of multi-system receivers is built to work in most European countries. However, the mains plug and socket system for the UK differs from many European countries.

This appliance has been supplied with a fitted, non-removable, approved converter plug for use in the UK. This converter plug is fitted with a 5A rated fuse.

In case this appliance is supplied with a moulded 2-pin Euro plug only, which is unsuitable for UK operation, this must be cut off and immediately disposed of. An approved 13A, 3-pin UK plug should then be fitted by a qualified electrician.

Note:

The severed Euro plug must be destroyed to avoid a possible shock hazard should it be inserted into a socket elsewhere.

If a non-rewireable 3-pin plug or a rewireable 13A (BS1363) 3-pin plug is used, it must be fitted with a 5A ASTA or BSI approved BS1362 fuse. If any other type of plug is used it must be protected by a 5A fuse either in the plug, or at the distribution board. If this type of plug becomes defective, ensure that the fuse is removed before disposal, to eliminate potential shock hazard.

If it is necessary to change the fuse in the non-rewireable plug, the correct type and rating (5A ASTA or BSI approved BS1362) must be used and the fuse cover must be refitted. If the fuse cover is lost or damaged, the lead and plug must not be used until a replacement is obtained. Replacement fuse covers should be obtained from your dealer.

Important:

The wires in the mains lead are colour coded in accordance with the following code:

BLUE – NEUTRAL

BROWN – LIVE

As the colours of the wires in the mains lead of your appliance may not correspond with the coloured marking identifying terminals in your plug, proceed as follows:

Connect the BLUE coloured wire to plug terminal marked with the letter "N" or coloured black.

Connect the BROWN coloured wire to the plug terminal marked with the letter "L" or coloured red.

In no circumstance must any of the wires be connected to the terminal marked with the letter "E", earth symbol "⏏", coloured green, or green & yellow.

Replacement mains lead sets can be obtained from your local dealer, or by contacting Grundig Consumer Relations (01788 570088)

Moulded 3-pin lead set, suitable for UK use:

Ref: Leadset UK 8290-991-224

Moulded 2-pin Euro lead set, not suitable for UK use:

Ref: Leadset Euro 8290-991-316

SETTINGS

Automatic settings

Automatic station search

Note:

In order to interrupt the automatic settings, press »**ON/OFF**«.

- 1 Once you have connected your device to the mains, the run-through of the frequency appears on the display.
 - Your device automatically searches the frequency band for radio stations.
 - The radio stations are saved automatically.
 - After the completion of the station search, the device switches to stand-by mode, the time is set to »0:00« and the DCF symbol »⌚« flashes. In the process, the radio programme is muted.

Radio-controlled clock

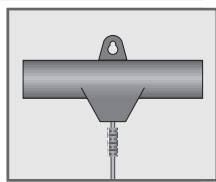
With your built-in radio-controlled clock, you are in possession of an absolutely precise alarm and meeting clock which is automatically set to the radio-transmitted time signals of the most precise clock in the world: the atomic clock of the Physikalisch-Technische Bundesanstalt in Braunschweig (PTB). This clock is so precise that in 1 million years a deviation of 1 second can be expected.

Your radio-controlled alarm clock receives "time telegrams" via long wave 77.5 kHz from the time signal transmitter DCF 77, located in Mainflingen (24 km south-east of Frankfurt/Main). This time signal transmitter has a range of 1500 km.

The device receives signals from the DCF 77 transmitter free of charge via the connected DCF 77 antenna wherever long wave reception is sufficient with, for example, a good portable radio. Your radio-controlled clock often receives the time telegrams at a considerably larger distance from the transmitter; in such cases the quality of the local reception plays a key role.

The clock's built-in micro-processor processes the received time telegrams and controls the quartz clock fully automatically. After the clock is first activated, the DCF synchronisation is performed immediately and subsequently every hour on the hour. Depending on the point of reception, synchronisation can take several minutes. During this process the »⌚« display flashes.. After a maximum of 5 minutes, the display starts glowing. The synchronisation continues running in the background. In addition to the advantages of precision timekeeping and to-the-second wake-up and alarm signals, your radio-controlled clock sets itself automatically to winter and daylight savings' time.

If the DCF reception is insufficient, the DCF symbol »⌚« appears without waves: » i «.



SETTINGS

Manual settings

If the device was not able to carry out a station search and synchronisation due to bad reception, then you can manually set the radio stations, time and date. You should nonetheless try to improve the reception conditions by aligning the FM and DCF antenna.

Tuning radio stations

There are 10 channel positions available for radio stations.

- 1 Press »**ON/OFF**« to switch on the device.
- 2 Begin the station search by pressing and holding down »▼« or »▲«.
 - The search stops as soon as a radio station with a sufficiently strong signal is found.
 - You can also set the frequency of the programme step-by-step (50 kHz) by briefly pressing »▼« or »▲«.
- 3 Save the radio station by pressing »**MEMORY**« (»**M**« flashes in the display), select the desired channel position within 20 seconds with »**1/6 ... 5/10**« and confirm with »**MEMORY**«.
 - Press »**1/6 ... 5/10**« once for channel positions 1 ... 5, and twice for channel positions 6 ... 10.
 - Display: the frequency and the selected channel position, e.g. »**M 1**«.
- 4 To set further radio stations, repeat this procedure starting at pt. 2.

Note:

If no channel position is selected within 20 seconds, the device interrupts the setting procedure. Start again at Step 3.

Setting the time and date

If your device cannot automatically receive the time and date, you can set both of them manually.

- 1 Press »**ON/OFF**« to switch the device to stand-by mode.
- 2 Press »**MEMORY**«.
 - Display: the hours flash.
- 3 Press »▼« or »▲« briefly to set the hours step-by-step or hold down to run through the hours quickly.
- 4 Press »▶«.
 - Display: the minutes flash.
- 5 Press »▼« or »▲« briefly to set the minutes step-by-step or hold down to run through the minutes quickly.
- 6 Press »**MEMORY**«.
 - Display: the day of the week flashes.
- 7 Press »▼« or »▲« briefly to set the day step-by-step or hold down to run through the days quickly.

SETTINGS

- 8 Press »►«.
– Display: The month flashes.
- 9 Press »▼« or »▲« briefly to set the day step-by-step or hold down to run through the days quickly.
- 10 Press »►«.
– Display: The year flashes.
- 11 Press »▼« or »▲« briefly to set the year step-by-step or hold down to run through the years quickly.
- 12 Press »MEMORY« to confirm the settings.

Setting the time zone

- 1 Press »ON/OFF« to switch off the device.
- 2 To call up the setting, press »MEMORY« until »00« appears in the display.
- 3 Set the time zone with »▼« or »▲« (scale: »00«, »-1«, »-2«, »02«, »01« and »00« again).
– Display: e.g. »-2«.
- 4 Press »MEMORY« to confirm the settings.

Note:

If the device is disconnected from the power supply for longer than 30 minutes, for example in case of a power failure, the time zone setting returns to »00«. Please note that in such a case you may be awoken by the alarm at the wrong time.

Adjusting the brightness of the display (in stand-by mode)

Note:

The sensor (Auto Dimmer) on the front of the device adjusts the brightness of the display to the given external lighting conditions.

- 1 Press »PROJECTOR« for more than 2 seconds.
- 2 Use »▼« or »▲« to switch between the two brightness levels.

Setting alarm types and times

You can enter two different alarm programmes and select between three different alarm types. The sound sources of these alarm types are dynamic, which means the volume increases continually from zero onwards until an individually set maximum volume is reached (»V 20« for signal tone and »V 30« for radio station). If the volume control »+ VOLUME -« is used during the alarm, the volume stops increasing.

Alarm types: 📻 = radio alarm, 🔔 = signal alarm, 🔔 📻 = signal and radio alarm.

SETTINGS

All settings can be carried out in stand-by mode. The following sections describe the settings for the first alarm programme »ALARM 1«. Repeat this for the second alarm programme »ALARM 2«. When both alarm times are activated, »ALARM 1 2«, the alarm time (e.g. »1:30«) and the upcoming day of the week, to which the alarm setting applies appear in the display.

Radio alarm

- 1 Press »ON/OFF« to switch on the device.
- 2 Use »1/6 ... 5/10« to select the desired radio station.
– The requested radio station is played.
- 3 Set the desired maximum volume using »+ VOLUME –«.
- 4 Press »ON/OFF« to switch the device to stand-by mode.
- 5 To activate the first alarm programme, press and hold down »AL 1«.
– Display: e.g. »ALARM 1«, the alarm time (e.g. »5:00«) and the next alarm day.
- 6 Press »AL 1« twice to set the programme.
– Display: »ALARM 1« flashes.
- 7 If necessary, select radio programme (»«) with »▼« or »▲«.
- 8 Press »▶«.
– Display: The hours of the alarm time flash.
- 9 Press »▼« or »▲« briefly to set the hours step-by-step or hold down to run through the hours quickly.
- 10 Press »▶«.
– Display: The minutes of the alarm time flash.
- 11 Press »▼« or »▲« briefly to set the minutes step-by-step or hold down to run through the minutes quickly.
- 12 Press »▶«.
– Display: »MON« flashes.
- 13 Switch the alarm on Monday on or off with »▼« or »▲«.
– Display: »ON« or »OFF« appears and flashes.
- 14 Press »▶«.
– Display: »TUE« flashes.
- 15 Choose settings for all days of the week; to do so repeat steps 11 and 12 as often as necessary.
- 16 Press »AL 1« to confirm the settings.
– Display: »ALARM 1«, the alarm time (e.g. »1:00«) and the next alarm day for the week.

SETTINGS

Signal alarm

- 1 Press »ON/OFF« to switch the device to stand-by mode.
- 2 To activate the first alarm programme, press and hold down »AL 1«.
– Display: e.g. »ALARM 1 1 🎵«, the alarm time (e.g. »6:00«) and the next alarm day.
- 3 Press »AL 1« twice to set the programme.
– Display: »ALARM 1 🎵« flashes.
- 4 If necessary, select signal alarm (»🔔«) with »▼« or »▲«.
- 5 To set and confirm the alarm time, repeat steps 8 to 16 of the “radio alarm” section.

Radio and signal tone alarm

- 1 Press »ON/OFF« to switch on the device.
- 2 Use »1/6 ... 5/10« to select the desired radio station.
– The requested radio station is played.
- 3 Set the desired maximum volume using »+ VOLUME -«.
- 4 Press »ON/OFF« to switch the device to stand-by mode.
- 5 To activate the first alarm programme, press and hold down »AL 1«.
– Display: e.g. »ALARM 1 1 🎵«, the alarm time (e.g. »6:00«) and the next alarm day.
- 6 Press »AL 1« twice to set the programme.
– Display: »ALARM 1 🎵« flashes.
- 7 If you have not already selected it, select the radio and signal tone alarm type (»🔔 🎵«) with »▼« or »▲«.
- 8 To set and confirm the alarm time, repeat steps 8 to 16 of the “radio alarm” section.

Note:

You will be awoken with the radio programme at the set alarm time; approx. 9 minutes later the signal tone will sound. If you interrupt the signal tone with »SNOOZE«, you will still hear the radio programme.

Deleting all settings (Reset)

If the electronic system of your device becomes blocked (as the result of static electricity from the floor carpet or storms, for example), the device can be reset to its original condition.

- 1 Press »RESET« (at the base of the casing) with a sharp object and hold down for about 2 seconds.
– The time, date, alarm times and radio settings are deleted.

OPERATION

Switching on and off

- 1 Press »ON/OFF« to switch the device on from stand-by mode and to switch it back to stand-by mode.

Radio mode

For the best possible FM (VHF) reception, it is sufficient to direct the wire antenna accordingly.

- 1 Press »ON/OFF« to switch the device on.
 - The display shows »F!«, »MHZ« and the frequency of the station.
 - You will hear the radio station last selected.
- 2 Select the desired station position with the »1/6 ... 5/10« button.
 - Press »1/6 ... 5/10« once for channel positions 1 ... 5, and twice for channel positions 6 ... 10.
- 3 Press »ON/OFF« to switch off the device.
 - The current time, date and day of the week appear in the display.

Adjusting the volume

- 1 Adjust the volume by pressing »+ VOLUME –«.
 - Display: Scale between »∩ 00« and »∪ 30«.

Alarm mode

Limiting the alarm to individual days of the week

In the basic setting the selected alarm types and times apply to all days of the week (display: »MON« to »SUN«). If desired, individual days can be deleted. You can thus create your own personal weekly rhythm.

- 1 Press »ON/OFF« to switch the device to stand-by mode.
- 2 To activate the first alarm programme, press and hold down »AL 1«.
 - Display: e.g. »ALARM 1 1 1«, the alarm time (e.g. »5:00«) and the next alarm day.
- 3 Press »AL 1« twice to activate the setting.
 - Display: »ALARM 1 1« flashes.
- 4 Press »◀« or »▶« until the desired day of the week flashes in the display.
- 5 To delete the day, press »▼« or »▲«.
 - Display: »0FF« and the deleted day of the week flash for about 10 seconds until the LEDs go out.
- 6 Switch to the next day of the week by using »◀« or »▶«.
 - The deleted day of the week flashes in the display.

OPERATION

- To delete further days of the week repeat steps **4** to **6**.
- Press »**AL 1**« to confirm your entry.
- To reinsert deleted days of the week repeat steps **1** to **8**.

Note:

If the alarm times for this day have expired, the next day of the week always appears in the display, to which the alarm applies with alarm time and type, regardless of the selected setting.

Check alarm programme

You can check the two alarm programmes while in other modes, for example radio mode, without blocking the alarm function.


- Press »**AL 1**« once.
 - Display: Alarm type, alarm time 1 and the selected day of the week.
- Press »**AL 2**« once.
 - Display: Alarm type, alarm time 2 and the selected day of the week.

Notes:

The next alarm time is always shown in the display, regardless of the selected operating mode (e.g. »**ALARM** **1** **2**« with alarm type, alarm time and day of the week).

Interrupting and repeating the alarm

You can interrupt the alarm function – regardless of the alarm type selected. After 9 minutes, the alarm sounds again.

- Press »**SNOOZE**« to interrupt the alarm.
 - Display: e.g. »**ALARM** **1**  « flashes.
 - The circular snooze LED flashes.

Note:

The alarm function can be interrupted as often as possible within the 90 minute alarm duration. When using the radio and signal tone alarm, only the signal tone is interrupted for about 9 minutes.

Cancelling the alarm for the day

- Press »**ON/OFF**« to end the alarm.
 - The alarm function is cancelled for the rest of the day, the alarm sounds at the time of the next set alarm programme.

Deactivate the alarm for the weekend

You can deactivate the alarm function over the weekend. The entered alarm times are saved.

- Press »**WEC**« to deactivate the alarm.
 - Display: » **WEC** « and the next day with alarm, for example » **MON** «.
- Reactivate alarm function with »**WEC**«.
 - The indicator: » **WEC** « disappears and the next day with alarm is » **SAT** «, for example.



OPERATION

Deactivate alarm for the next day.

You can deactivate the alarm function for the next day, for example, if that day is a public holiday. The set alarm times are saved.

- 1 To deactivate the alarm function for the next day, press »**SNOOZE**« for more than 5 seconds.
 - Display: e.g. »**1**« flashes for the deactivated alarm function, next alarm, next alarm time and next alarm day remain constant.
- 2 To reactivate the alarm function for the next day, press »**SNOOZE**« for more than 5 seconds.
 - Display: e.g. »**1**« for the reactivated alarm function, next alarm time and next alarm day.

Deactivating/activating the alarm function



- 1 Press »**ON/OFF**« to switch the device to stand-by mode.
- 2 To deactivate the first alarm programme, press and hold down »**AL 1**«.
 - Display: e.g. »**ALARM 1** «, the alarm time (e.g. »5:00«) and the next alarm day.
- 3 To deactivate the second alarm programme, repeat step 2 with »**AL 2**«.
- 4 To reactivate the alarm programme, press and hold down »**AL 1**«.
 - Display: »**ALARM 1** «, the alarm time (e.g. »5:00«) and the next alarm day.

Timer mode

Your device has two timer modes:


- The sleep-timer, which switches the machine off at a preset time.
- The reminder timer, reminding you by sounding the signal tone at a preset time.

Setting the sleep timer



- 1 Press »**SLEEP**« to switch the device on.
 - Display: »50« and »« flash.
 - You will hear the radio station last selected.
- 2 Confirm switch-off time with »**▼**« or »**▲**« (in 10 minute intervals from 120 to 10 minutes) and confirm with »**SLEEP**«.
 - Display: »« the remaining time until the device switches off, e.g. »28«.
 - After the set time has elapsed, the device shuts off.

OPERATION

Switching off the sleep timer

- 1 For switching off the sleep timer before the set time, switch off device with »ON/OFF« or press and hold down »SLEEP«.
 - Display: »« and the remaining time stop glowing.
 - The device switches off.

Setting the reminder timer


- 1 Activate the function with »NAP«.
 - Display: »« and »NAP« flash.
 - The circular snooze LED flashes.
- 2 Confirm reminder time with »▼« or »▲« (in 10 minute intervals from 120 to 10 minutes) and confirm with »NAP«.
 - Display: »NAP« the remaining time until the reminder, e.g. »35«.
 - After the set time has expired, a signal tone sounds (for max. 90 minutes).
 - Display: »« flashes briefly and then stops with »NAP«.
- 3 To switch off the signal tone, press and hold down »NAP«.

Switch off reminder timer

- 1 To switch off the reminder timer before the set time, press »NAP« and hold it down.
 - Display: »NAP« and the remaining time until the reminder stop glowing.

Operation with the projector

You can use the supplied projector to project the current time to the wall or the ceiling.

- 1 Connect the projector cable to the socket »« (left side of the device).
 - The light in the projector lights up.
- 2 Direct the body of the projector in the desired angle.
- 3 Set the focus of the projection by moving the lens holder.
 - The current time can be seen on the wall or on the ceiling.
- 4 Switch the projector off and on by using »PROJECTOR«.

Note:

If you are not using the projector for longer periods of time, take it off the device.

